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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/710,929	08/13/2004	Yihua Lu	MSCP0029USA	4928
27765	7590 07/22/2005		EXAMINER	
NORTH AMERICA INTERNATIONAL PATENT OFFICE (NAIPC)			VY, HUNG T	
P.O. BOX 50 MERRIFIEL	D, VA 22116		ART UNIT	PAPER NUMBER
	•		2821	

DATE MAILED: 07/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/710,929	LU, YIHUA	(Ben			
Office Action Summary	Examiner	Art Unit				
	Hung T. Vy	2821	<u></u>			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with	the correspondence ad	Idress			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a repl within the statutory minimum of thirty (ill apply and will expire SIX (6) MONTH cause the application to become ABAN	ly be timely filed 30) days will be considered timel IS from the mailing date of this c NDONED (35 U.S.C. § 133).	-			
Status						
1) Responsive to communication(s) filed on						
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.					
3) Since this application is in condition for allowan	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D.	11, 453 O.G. 213.				
Disposition of Claims						
 4) Claim(s) 1-14 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-14 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 						
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examiner 11).	epted or b) objected to by drawing(s) be held in abeyance on is required if the drawing(s)	e. See 37 CFR 1.85(a).) is objected to. See 37 Cl	• •			
Priority under 35 U.S.C. § 119		•				
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applity documents have been received in (PCT Rule 17.2(a)).	olication No eceived in this National	Stage			
Attachment(s) I) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		Mail Date brmal Patent Application (PT0)	O-152)			

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DETAILED ACTION

Foreign Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Taiwan on 01/20/2004.

Drawings

2. The drawings are objected to for the following reasons.

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference characters 14 and 112 have both been used to designate second surface. Correction is required.

Specification

3. The specification has been checked to the extent necessary to determine the presence of possible minor errors. However, the applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 1 is rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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Regarding claim 1, the phrase "OLE_LINK1" renders the claim indefinite because it is unclear whether the limitation(s) following the phrase are part of the claimed invention. See MPEP § 2173.05(d). What is the "OLE_LINK1"?.

Regarding claim 1, the phrase "the ground pad comprises a base from the base extending toward the feeding point" renders the claim(s) indefinite because the claim(s) fail to clearly define the base of ground pad. Where is the base and where is the ground pad? It is not clear 142 is the conductive or nonconductive material.

Claim 12, the phrase "extension", "first edge" renders the claim indefinite because it is not clear an extension is the ground or one part of conductive material or nonconductive material. Where is the first edge?

Claims 2-15 depend from rejected claim 1 thereby render these dependent claims indefinite.

Base on rejection 112, the applicant has been examined.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

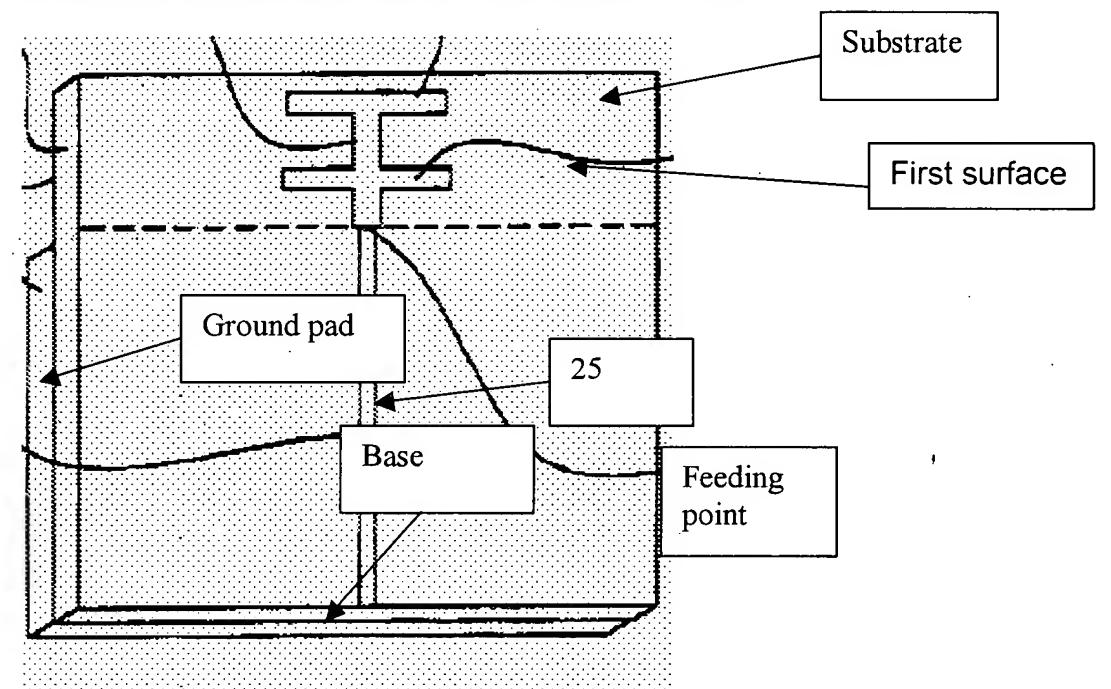
(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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35 U.S.C. § 102(e), as revised by the AIPA and H.R. 2215, applies to all qualifying references, except when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. For such patents, the prior art date is determined under 35 U.S.C. § 102(e) as it existed prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. § 102(e)).

Claims 1-2, 5-8 and 10-13 are rejected under 35 U. S. C. § 102 (e) as being anticipated by admitted prior art (Admission) in Fig. 1.



Claim 1, Admission discloses a dual-band antenna, comprising a substrate 24 having a first surface and a second surface that is on the opposite side of the substrate 24 from the first surface, a transmission line 25 coupled to a feeding point for transmitting RF signals, an emitting unit having a first wire 21 and a second wire 22 that are both disposed on the first surface and the first wire 21 and the second wire 22 are crossed at the feeding point (See fig. above); and a ground pad 28 disposed on the

second surface of the substrate 24 (see fig. above), wherein the ground pad 24 comprises a base from the base extending toward the feeding point (See fig. above).

Claim 2, Admission discloses a transmission is a microstrip 25 (See fig. above).

Claim 5, Admission discloses the base of the ground pad is substantially rectangular (see fig. above).

Claims 6-8, Admission discloses an extension 28 disposes on the second surface and extending from the base toward a first edge of the substrate (see fig. above), the extension is adjacent to the emitting unit and the extend of the ground pad is substantially rectangular in shape (See fig. above).

Claims 10-11, it is inherent Admission disclose the first wire 21 decides the low operation frequency and second wire decides high operation frequency because with the same structure as the second wire 22 is shorter than first wire 21 from the feeding point.

Claims 12-13. Admission disclose the second wire 22 is extended upward from the feeding point and bent at some angle, being parallel to on side of the base and the first wire parallel to one side of the base (See fig. 1)

Claim Rejections - 35 U.S.C. § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth insection 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 3-4 and 14 rejected under 35 U.S.C. 103 (a) as being unpatentable over admitted prior art (Admission)

Claims 3-4 and 14, Admission discloses the claimed invention except for different kind of transmission line. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have different kind of transmission and have different impedance, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. In re Leshin, 125 USPQ 416.

Conclusion

- 7. Claim 9 would be allowed. (if rewritten to overcome the rejection under 35 USC § 112 and to include all of the limitations of the base claim and any intervening claims)
- 8. When responding to the office action, Applicants are advised to provide the examiner with the line numbers and page numbers in the application and/or references cited to assist the examiner to locate the appropriate paragraphs.
- 14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung Vy whose telephone number is (571) 272-1954. The examiner can normally be reached on Monday-Friday 8:30 am 5:30pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax numbers for the organization where this application or proceeding is assigned are (571) 273-8300 for regular communications and (571) 273-8300 for After Final communications.

Information regarding the status of an application may be obtained from the patent Application Information Retrieval (PAIR) system. Status information for published application may be obtained from either private Pair or Public Pair. Status information for unpublished applications is available through Private Pair only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have question on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hung T. Vy Art Unit 2821 July 18, 2005.

HOANG V. NGUYEN PRIMARY EXAMINER